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## Datasheet for ABIN1387382 **anti-PHOX2A antibody (AA 41-140)**

### Overview

Quantity:	100 µL
Target:	PHOX2A
Binding Specificity:	AA 41-140
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHOX2A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PHOX2A
Isotype:	IgG
Predicted Reactivity:	Human,Mouse,Rat,Cow,Sheep,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	PHOX2A
Alternative Name:	PHOX2A/CFEOM2 ( <a href="#">PHOX2A Products</a> )

## Target Details

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Background:	<p>Synonyms: Aristaless homeobox Drosophila fibrosis of extraocular muscles congenital 2 autosomal recessive, Aristaless homeobox gene homolog Drosophila, Aristaless homeobox homolog, Aristaless homeobox protein homolog, ARIX 1 homeodomain protein, ARIX, Arix homeodomain protein, ARIX1 homeodomain protein, CFEOM 2, CFEOM2, FEOM 2, FEOM2, Fibrosis of extraocular muscles congenital 2 autosomal recessive, MGC52227, NCAM 2, NCAM2, Paired like aristaless Homeobox 2A, Paired like homeobox 2a, Paired mesoderm homeobox 2a, Paired mesoderm homeobox protein 2A, Paired-like homeobox 2A, PHOX 2A, Phox2, Phox2a, PHX2A_HUMAN, Pmx 2a, Pmx2, Pmx2a.</p> <p>Background: Phox2a (also designated Arix1) and Phox2b are closely related, paired-homeodomain transcription factors that are necessary for neuronal differentiation throughout the developing sympathetic, parasympathetic and enteric ganglia. All enteric nervous system cells evolve from the neural crest, and all cells that are undifferentiated initially express Phox2b. The cells that begin to differentiate along a neuronal lineage continue to express Phox2b, and begin to express Phox2a. Phox2b is required for the differentiation of all central and nonperipheral noradrenergic centers in the brain. In contrast, Phox2a controls only the differentiation of the main noradrenergic center of the brain, the locus ceruleus. Both Phox2a and Phox2b are crucial for the regulation of endogenous tyrosine hydroxylase and dopamine-beta hydroxylase, which are transiently expressed in neural crest cells. In addition, Phox2 proteins are sufficient to promote sympathetic neuron generation. The gene which encodes Phox2a maps to human chromosome 11q13.3-q13.4.</p>
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## Application Details

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Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
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## Handling

Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months